

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S8	1494	titanium near aluminum near oxide\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/27 13:23
S9	78	titanium near aluminum near oxide\$1 and thickness\$2 and refractive near index\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/27 13:24
S11	78	titanium near aluminum near oxide\$1 and thickness\$2 and refractive near index\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 09:32
S12	25	S11 and @pd<"20021201"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 09:36
S25	976	titanium adj aluminum near oxide or aluminum adj titanium near oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 11:57
S26	433	titanium adj aluminum near oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 11:57
S27	433	"titanium aluminum" near oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 11:58

S28	433	"titanium aluminum" near oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	NEAR	OFF	2008/06/30 11:58
S29	294	titanium adj aluminum adj oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 12:00
S31	93	titanium near aluminum near oxide\$1 and refractive near index\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 12:06
S32	869	titanium near aluminum near oxide\$1 and (refractive near index\$2 or thickness\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 12:07
S33	15	S31 not S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 12:07
S36	46	titanium near aluminum near oxide and thickness \$2 and refractive near index\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 12:55
S37	14	((US-20070231501-\$ or US-20060255739-\$ or US-20060127699-\$ or US-20050258030-\$ or US-20070173051-\$ or US-20030039930-\$).did. or (US-5914817-\$ or US-5232790-\$ or US-7381469-\$ or US-7018727-\$).did. or (US-6782014-B-\$ or US-20020127408-A-\$ or JP-2003041150-\$ or JP-2002107505-\$ or US-6337771-B-\$ or WO-2004026782-A-\$ or JP-2005148272-\$ or JP-	US-PGPUB; USPAT; DERWENT	OR	OFF	2008/06/30 13:04

		2005196122-\$).did.				
S38	551	ATO and reflective	US-PGPUB; USPAT; DERWENT	OR	OFF	2008/06/30 13:08
S39	0	ATO near reflective	US-PGPUB; USPAT; DERWENT	OR	OFF	2008/06/30 13:08
S40	1556	ti\$1al\$1O\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:42
S41	423	S40 and oxide\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:44
S42	61	S40 and titanium near aluminum near oxide\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:45
S48	15	(US-20070231501-\$ or US- 20060255739-\$ or US- 20060127699-\$ or US- 20050258030-\$ or US- 20070173051-\$ or US- 20030039930-\$ or US- 20010034106-\$).did. or (US-5914817-\$ or US- 5232790-\$ or US- 7381469-\$ or US- 7018727-\$).did. or (US- 6782014-B-\$ or US- 20020127408-A-\$ or JP- 2003041150-\$ or JP- 2002107505-\$ or US- 6337771-B-\$ or WO- 2004026782-A-\$ or JP- 2005148272-\$ or JP- 2005196122-\$ or US- 20050086780-A-\$ or US- 20030203645-A-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2008/06/30 15:42
S49	15	S48 and titanium near aluminum near oxide\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 15:43

S50	24	(US-20070231501-\$ or US-20060255739-\$ or US-20060127699-\$ or US-20050258030-\$ or US-20070173051-\$ or US-20030039930-\$).did. or (US-5914817-\$ or US-5232790-\$ or US-7381469-\$ or US-7018727-\$).did. or (US-6782014-B-\$ or US-20020127408-A-\$ or JP-2003041150-\$ or JP-2002107505-\$ or US-6337771-B-\$ or WO-2004026782-A-\$ or JP-2005148272-\$ or JP-2005196122-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2008/06/30 15:43
S51	15	S50 and titanium near aluminum near oxide\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 15:43
S52	1	S51 not S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 15:44
S53	9	S50 not S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 15:45
S54	93	(titanium near aluminum near oxide\$1 or ti\$1A/\$1O \$1)and thickness\$2 and refractive near index\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/07/18 15:30
S56	17	(titanium near aluminum near oxide\$1 or ti\$1A/\$1O \$1) and silicon near oxide\$1 and zirconium near oxide\$1 and thickness\$2 and refractive near index \$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/07/18 15:34

S57	217	titanium near aluminum near oxide\$1 same thickness\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 10:56
S58	46	titanium near aluminum near oxide\$1 same thickness\$2 and titanium near aluminum near oxide \$1 same oxide\$1 near (film\$1 coating\$1 layer\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 10:58
S59	46	titanium near aluminum near oxide\$1 same thickness\$2 and titanium near aluminum near oxide \$1 same oxide\$1 near (film\$1 coating\$1 layer\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:58
S61	6	titanium near aluminum near oxide\$1 same thickness\$2 and titanium near aluminum near oxide \$1 same oxide\$1 near (film\$1 coating\$1 layer \$1) .clm.	US-PGPUB; USPAT	OR	ON	2008/12/08 11:12
S62	167	titanium near aluminum near oxide\$1 near (layer \$1 coating\$1 film\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/08 08:56
S63	62	(titanium near aluminum near oxide\$1 TialO\$1) same thickness\$2 and (tialo\$1 titanium near aluminum near oxide\$1) same oxide\$1 near (film \$1 coating\$1 layer\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/08 08:57
S64	0	(10/527520).CCL.S.	US-PGPUB; USPAT	OR	OFF	2009/01/08 09:00
S65	1	10/527520	US-PGPUB; USPAT	OR	OFF	2009/01/08 09:00
S66	1	(titanium near aluminum near oxide\$1) and S65	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/08 09:03
S67	1	("7381469").FN.	US-PGPUB; USPAT	OR	OFF	2009/01/08 09:21

S71	6241	Schott .as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/08 09:24
S72	8	(titanium near aluminum near oxide\$1) and S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/08 09:24
S73	91	titanium near aluminum near oxide\$1 near (layer \$1 coating\$1 film\$1) and oxide\$1 near (layer\$1 coating\$1 film\$1)near10 (thickness\$2 thick\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 14:22
S74	406	(((((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near2 (layer\$1 coating\$1 film\$1) same (thickness\$2 thick \$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 14:26
S75	23	(((((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near2 (layer\$1 coating\$1 film\$1) same (thickness\$2 thick \$2)) and(((titanium ti) near2 (aluminum al) near2 oxide\$1) (ti\$1al\$1O \$1)))near2 (layer\$1 coating \$1 film\$1) near10 (silicon near oxide\$1 sio\$1)near2 (layer\$1 coating\$1 film\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 14:28
S76	86	(((((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near2 (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near2 (layer\$1 coating\$1 film\$1) near10 (silicon near oxide \$1 sio\$1)near2 (layer\$1 coating\$1 film\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 14:29

S77	63	(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) near10 (silicon near oxide \$1 sio\$1)near2 (layer\$1 coating\$1 film\$1) and (thickness\$2 thick\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 14:30
S79	27	(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) near10 (inter intermediate) near2 (silicon near oxide\$1 sio \$1 oxide\$1)near2 (layer\$1 coating\$1 film\$1) and (thickness\$2 thick\$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 14:32
S80	3	((((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) near10 (inter intermediate) near2 (silicon near oxide\$1 sio \$1 oxide\$1)near2 (layer\$1 coating\$1 film\$1) and (thickness\$2 thick\$2)) ). clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/15 14:33
S81	1	JP-3135502-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 09:20
S82	2	JP-03135502-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 09:22

S83	1	JP-07138048-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 09:35
S84	0	JP-200214203-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 09:46
S85	0	JP-0214203-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 09:46
S86	2	JP-2002014203-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 09:46
S87	2	JP-11149063-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 09:48
S88	1	10/527494	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 11:40
S89	1	S88 and refractive near index	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 11:41
S90	1	S88 and thickness\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/02 11:54
S91	1	("20050100745").FN.	US-PGPUB; USPAT	OR	OFF	2009/09/02 14:48



S92	682	(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) near10 (silicon near oxide \$1 sio\$1 oxide\$1)near2 (layer\$1 coating\$1 film\$1) and (thickness\$2 thick\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 17:00
S93	371	(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near2 (layer\$1 coating\$1 film\$1) near10 (silicon near oxide \$1 sio\$1 oxide\$1)near2 (layer\$1 coating\$1 film\$1) and(silicon near oxide\$1 sio\$1 oxide\$1)near2 (layer \$1 coating\$1 film\$1) near10 (thickness\$2 thick \$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 17:02
S94	260	(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1))near (layer\$1 coating\$1 film\$1) near10 (silicon near oxide \$1 sio\$1 oxide\$1)near (layer\$1 coating\$1 film\$1) and(silicon near oxide\$1 sio\$1 oxide\$1)near2 (layer \$1 coating\$1 film\$1) near10 (thickness\$2 thick \$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 17:03

S95	248	((((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near (layer\$1 coating\$1 film\$1) near10 (silicon near oxide \$1 sio\$1 oxide\$1)near (layer\$1 coating\$1 film\$1) and(silicon near oxide\$1 sio\$1 oxide\$1)near (layer \$1 coating\$1 film\$1) near10 (thickness\$2 thick \$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 17:03
S96	245	((((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near (layer\$1 coating\$1 film\$1) and(((titanium ti) near2 (aluminum al) near2 oxide \$1) (ti\$1al\$1O\$1)))near (layer\$1 coating\$1 film\$1) near10 (oxide\$1)near (layer\$1 coating\$1 film\$1) and(oxide\$1)near (layer \$1 coating\$1 film\$1) near10 (thickness\$2 thick \$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 17:05

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	((((titanium ti) near2 (aluminum al) near2 oxide\$1) (ti\$1al\$1O\$1)))near (layer\$1 coating\$1 film\$1) and (((titanium ti) near2 (aluminum al) near2 oxide\$1) (ti\$1al\$1O\$1)))near (layer\$1 coating\$1 film\$1) near10 (oxide\$1)near (layer\$1 coating\$1 film\$1) and(oxide\$1) near (layer\$1 coating \$1 film\$1) near10 (thickness\$2 thick \$2)). cfm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/18 10:37

12/ 18/ 2009 10:40:55 AM

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